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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/836,201	04/18/2001	Akihiro Hosokawa	109305	6504

25944 7590 09/15/2003

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EXAMINER

WONG, KIN C

ART UNIT PAPER NUMBER

2651

DATE MAILED: 09/15/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/836,201

Applicant(s)

HOSOKAWA ET AL.

Examiner

K. Wong

Art Unit

2651

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 18 April 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Drawings*

The drawings filed on 6/11/01 have been approved by the draftsman.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims (1-13) are rejected under 35 U.S.C. 102(e) as being anticipated by  
Yaeger et al (6057975).

Regarding claim 4: Yaeger et al discloses an apparatus for adjusting the static angular position of a magnetic head unit including:

a magnetic head unit (element 40 in figure 3 of Yaeger et al) having a head support and a magnetic head, the head support including a flexible member (element 26 in figure 3) to which the magnetic head is mounted;

an angular position modifying unit (as depicted in figure 7) for applying a bend onto the flexible member for adjusting the static angular position (see depiction of figure 3); and

a laser emitter unit (element 44 in figure 3) for irradiating a laser beam onto areas of the flexible member where the bend is applied. The limitations are considered satisfied

because Yager et al discloses a laser control system for adjusting the head positioning in a disk drive (see col. 2, lines 19-12 of Yager et al).

Regarding claim 5: Yaeger et al depicts in figures 3, 4 and 5 that wherein the head support includes a load beam which has a free end, the flexible member is jointed at one side to the free end of the load beam and at the other side to the magnetic head, and the laser emitter unit irradiates the laser beam onto areas of the flexible member, where the bend is applied, between the magnetic head and the joint between the flexible member and the load beam.

Regarding claims 6 and 7: Yaeger et al teaches that further comprising: a displacement measuring unit for detecting the bend of the flexible member; and a controller unit for controlling the action of the laser emitter unit and the angular position modifying unit based on a detection signal from the displacement measuring unit (in col. 2, lines 38-59 and col. 3, line 18 to col. 4, line 37 of Yaeger et al).

Regarding claims 8 and 9: the limitations of a laser beam shielding means for shielding a protected region from the laser beam are considered inherent because it is an inherent knowledge for artisan in the art to protect or localize the laser target region.

Regarding claims 10 and 11: the limitations of wherein angular position modifying unit includes movable arm driven to grip the flexible member and the magnetic head together are considered inherent because it would inherent to have a jig to hold down the arm/head assembly when arm/head is <sup>to</sup> side of the drive.

Regarding claims 12 and 13: the limitations of wherein the angular position adjusting apparatus includes four movable arms which are pin-like members, distal

ends of which are arranged to be in direct contact with flange portions of the flexible member are considered inherent grip finger (or pin-like member) for grip jig in hold down arm/head assembly when the assembly is out of the drive.

Regarding claims 1-3: method claims (1-3) are drawn to the method of using the corresponding apparatus claimed in claims (4-13). Therefore method claims (1-3) correspond to apparatus claims (4-13) and are rejected for the same reasons of anticipation as used above.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Murata et al (5347415), Singh et al (5712463), Girard (5832764) and Jurgenson et al (6072151) could be read in claims 1-7 for adjusting the head angular positioning in magnetic unit, but, have not been use in this office action. Watanabe et al (5043835), Maegawa et al (5256850), Murata et al (5341256), Mukae et al (5537276), Yamamoto et al (5728240), Zhu (5956212), Narayan et al (6366430) and Hosokawa et al (JP02001357645A) are cited for magnetic head angular position adjusting.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Wong whose telephone number is (703) 305-7772.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Hudspeth can be reached on (703) 308-4825. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for all communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

lekw

6 Sept 03

*Regina N. Holder*  
REGINA N. HOLDER  
PRIMARY EXAMINER